

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/816,825

DATE: 04/09/2001
 TIME: 10:01:09

Input Set : A:\Seqlist.txt
 Output Set: N:\CRF3\04092001\I816825.raw

Does Not Comply
 Corrected Diskette Needed
see p. 3

4 <110> APPLICANT: Bistrup, Annette
 5 Rosen, Steven D.
 6 Hemmerich, Stefan
 8 <120> TITLE OF INVENTION: GLYCOSYL SULFOTRANSFERASE-3
 11 <130> FILE REFERENCE: 6510-107CON
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/816,825
 14 <141> CURRENT FILING DATE: 2001-03-22
 16 <150> PRIOR APPLICATION NUMBER: 09/045,284
 17 <151> PRIOR FILING DATE: 1998-03-20
 19 <160> NUMBER OF SEQ ID NOS: 9
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 2032
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 ggctcgaggc caggatgcct ccagtcctggg ggaaaatgct tctcatttg cttctcccag 60
 30 cccacctcaa gcagtcctccc cacccttgga gtctcagcag tgttaaagct gttactttca 120
 31 cagcttccctg ggagcgagtg ctttctcaag ccgctcttg aaggtcttcc acttcagcac 180
 32 aatgctactg cctaaaaaaa tgaagctcct gctgtttctg gtttcccaga tggccatctt 240
 33 ggctctattc ttccacatgt acagccacaa catcagctcc ctgtctatga aggcacagcc 300
 34 cgagcgcatg cagtgctggg ttctgtcttc ctggcgctct ggctcttctt ttgtggggca 360
 35 gctttttggg cagcaccacg atgttttcta cctgatggag ccgctctggc acgtgtggat 420
 36 gaccttcaag cagagcaccg cctggatgct gcacatggct gtgcgggata tgatacgggc 480
 37 cgtcttcttg tgcgacatga gcgtctttga tgcctacatg gaacctgggc cccggagaca 540
 38 gtccagcctc tttcagtggg agaacagccg ggcctgtgt tctgcacctg cctgtgacat 600
 39 catccacaaa gatgaaatca tccccgggc tcactgcagg ctctgtgca gtcaacagcc 660
 40 ctttgagggtg gtggagaagg cctgccgctc ctacagccac gtggtgctca aggaggtgcg 720
 41 cttcttcaac ctgcagctccc tctaccgct gctgaaagac ccctccctca acctgcata 780
 42 cgtgcacctg gtccgggacc ccggggcgt gttccgttcc cgagaacgca caaagggaga 840
 43 tctcatgatt gacagtcgca ttgtgatggg gcagcatgag cagaaactca agaaggagga 900
 44 ccaaccctac tatgtgatgc aggtcatctg ccaaagccag ctggagatct acaagaccat 960
 45 ccagtccttg ccaaggccc tgcaggaacg ctacctgctt gtgcgctatg aggacctggc 1020
 46 tcgagccctt gtggcccaga cttcccgaat gtatgaattc gtgggatttg aattcttgcc 1080
 47 ccattctcag acctgggtgc ataacatcac ccgaggcaag ggcattgggtg accacgcttt 1140
 48 ccacacaaat gccagggatg cccttaattg ctcccaggct tggcgctggg ctttgcccta 1200
 49 tgaaaagggt tctcgacttc agaaagcctg tggcgatgcc atgaatttgc tgggctaccg 1260
 50 ccagctcaga tctgaacaag aacagagaaa cctgttgctg gatcttctgt ctacctggac 1320
 51 tgtccctgag caaatccact aagagggttg agaaggcttt gctgccacct ggtgtcagcc 1380
 52 tcagtcactt tctctgaatg cttctgagcc ttgcctacat ctctgagcct taactacatg 1440
 53 tctgtgggta tcacactgag tgtgagttgt gtccacacgt gctcaagcag aaggactttt 1500
 54 gtgtccatgc ttgtgtctag aaaacagact ggggaacctt atgtgagcag cacatcccac 1560
 55 cagtgaaca gggatattgt cttcttcttt tcttgatctt cctgtctggg cagacttcag 1620
 56 agactttgtg gcctggaggc ctattaagca cgacacagta tcagtggaaat tgatccataa 1680
 57 acctccctgt ccacatcttg cccaatgggg aatggatctt tcaccaaaga gctcaccagc 1740
 58 attttccaca gagatgaaa ttctgagccc ttggagttcc cagtggattc aagggaaggaa 1800
 59 gtgggaacaa ggttgatgac ctacttatga gcttgacct cagagctatc ggtaatcaga 1860

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```

60 aatatgaaac aaaatctctg cacaaaagag caagctctta agttcacagg gtgcctgggc 1920
61 tgcatttgaa tatcacttcc cctctgcatt ttcccatcac atagaagact ttgacctgtg 1980
62 aagctgccat ctgttaatac taaaattccc aaataagaaa aaaaaaaaaa aa 2032
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 386
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
70 Met Leu Leu Pro Lys Lys Met Lys Leu Leu Leu Phe Leu Val Ser Gln
71 1 5 10 15
72 Met Ala Ile Leu Ala Leu Phe Phe His Met Tyr Ser His Asn Ile Ser
73 20 25 30
74 Ser Leu Ser Met Lys Ala Gln Pro Glu Arg Met His Val Leu Val Leu
75 35 40 45
76 Ser Ser Trp Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Gly Gln
77 50 55 60
78 His Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Met
79 65 70 75 80
80 Thr Phe Lys Gln Ser Thr Ala Trp Met Leu His Met Ala Val Arg Asp
81 85 90 95
82 Leu Ile Arg Ala Val Phe Leu Cys Asp Met Ser Val Phe Asp Ala Tyr
83 100 105 110
84 Met Glu Pro Gly Pro Arg Arg Gln Ser Ser Leu Phe Gln Trp Glu Asn
85 115 120 125
86 Ser Arg Ala Leu Cys Ser Ala Pro Ala Cys Asp Ile Ile Pro Gln Asp
87 130 135 140
88 Glu Ile Ile Pro Arg Ala His Cys Arg Leu Leu Cys Ser Gln Gln Pro
89 145 150 155 160
90 Phe Glu Val Val Glu Lys Ala Cys Arg Ser Tyr Ser His Val Val Leu
91 165 170 175
92 Lys Glu Val Arg Phe Phe Asn Leu Gln Ser Leu Tyr Pro Leu Leu Lys
93 180 185 190
94 Asp Pro Ser Leu Asn Leu His Ile Val His Leu Val Arg Asp Pro Arg
95 195 200 205
96 Ala Val Phe Arg Ser Arg Glu Arg Thr Lys Gly Asp Leu Met Ile Asp
97 210 215 220
98 Ser Arg Ile Val Met Gly Gln His Glu Gln Lys Leu Lys Lys Glu Asp
99 225 230 235 240
100 Gln Pro Tyr Tyr Val Met Gln Val Ile Cys Gln Ser Gln Leu Glu Ile
101 245 250 255
102 Tyr Lys Thr Ile Gln Ser Leu Pro Lys Ala Leu Gln Glu Arg Tyr Leu
103 260 265 270
104 Leu Val Arg Tyr Glu Asp Leu Ala Arg Ala Pro Val Ala Gln Thr Ser
105 275 280 285
106 Arg Met Tyr Glu Phe Val Gly Leu Glu Phe Leu Pro His Leu Gln Thr
107 290 295 300
108 Trp Val His Asn Ile Thr Arg Gly Lys Gly Met Gly Asp His Ala Phe
109 305 310 315 320
110 His Thr Asn Ala Arg Asp Ala Leu Asn Val Ser Gln Ala Trp Arg Trp

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```

111          325          330          335
112 Ser Leu Pro Tyr Glu Lys Val Ser Arg Leu Gln Lys Ala Cys Gly Asp
113          340          345          350
114 Ala Met Asn Leu Leu Gly Tyr Arg His Val Arg Ser Glu Gln Glu Gln
115          355          360          365
116 Arg Asn Leu Leu Leu Asp Leu Leu Ser Thr Trp Thr Val Pro Glu Gln
117          370          375          380

```

118 Ile His
 119 385

121 <210> SEQ ID NO: 3

122 <211> LENGTH: 29

123 <212> TYPE: DNA

124 <213> ORGANISM: ~~primer~~ Artificial Sequence

126 <220> FEATURE:

127 <223> OTHER INFORMATION: primer

129 <221> NAME/KEY: misc_feature

130 <222> LOCATION: (0)...(0) /

131 <223> OTHER INFORMATION: n=inosine

133 <400> SEQUENCE: 3

W--> 134 twytwyctnt wygarccnct ntggcayst

29

136 <210> SEQ ID NO: 4

137 <211> LENGTH: 29

138 <212> TYPE: DNA

139 <213> ORGANISM: Artificial Sequence

141 <220> FEATURE:

142 <223> OTHER INFORMATION: primer

144 <221> NAME/KEY: misc_feature

145 <222> LOCATION: (0)...(0) /

146 <223> OTHER INFORMATION: n=inosine

148 <400> SEQUENCE: 4

W--> 149 cttaaactns tncwrctnst nmgnraycc

29

151 <210> SEQ ID NO: 5

152 <211> LENGTH: 29

153 <212> TYPE: DNA

154 <213> ORGANISM: Artificial Sequence

156 <220> FEATURE:

157 <223> OTHER INFORMATION: primer

159 <221> NAME/KEY: misc_feature

160 <222> LOCATION: (0)...(0) /

161 <223> OTHER INFORMATION: n=inosine

163 <400> SEQUENCE: 5

W--> 164 ggrtyncna snagywgnas nagnttnag

29

166 <210> SEQ ID NO: 6

167 <211> LENGTH: 26

168 <212> TYPE: DNA

169 <213> ORGANISM: Artificial Sequence

171 <220> FEATURE:

172 <223> OTHER INFORMATION: primer

174 <221> NAME/KEY: misc_feature

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```

175 <222> LOCATION: (0)...(0) /
176 <223> OTHER INFORMATION: n=inosine
178 <400> SEQUENCE: 6
W--> 179 agrtcytcrt ancknagnag nákrta 26
181 <210> SEQ ID NO: 7
182 <211> LENGTH: 37
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 7
187 aaactcaaga aggaggacca accctactat gtgatgc 37
189 <210> SEQ ID NO: 8
190 <211> LENGTH: 47
191 <212> TYPE: DNA
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 8
195 ataaagcttg tggatttggt cagggacatt ccaggtagac agaagat 47
197 <210> SEQ ID NO: 9
198 <211> LENGTH: 6
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 9
203 Val Arg Tyr Glu Asp Leu
204 1 5

```

VERIFICATION SUMMARY
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6